Appendix 1. Medline Search strategy

- 1. exp Urinary Tract Infections/
- 2. Urinary Tract Infection*.mp.
- 3. exp Cystitis/
- 4. (bladder adj infection*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]
- 5. Bacteriuria.mp.
- 6. Pyuria.mp.
- 7. (recurrent adj urinary).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]
- 8. UTI.mp.
- 9. exp Anti-Bacterial Agents/ or exp Antibiotic Prophylaxis/
- 10. antimicrobial*.mp.
- 11. randomized controlled trial.pt.
- 12. controlled clinical trial.pt.
- 13. randomized.ab.
- 14. placebo.ab.
- 15. clinical trials as topic.sh.
- 16. randomly.ab.
- 17. trial.ti.
- 18. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8
- 19. 9 or 10
- 20. 18 and 19
- 21. 11 or 12 or 13 or 14 or 15 or 16 or 17
- 22. exp animals/ not humans.sh.
- 23. 21 not 22
- 24. 20 and 23

Potentially relevant records after excluding duplicates(n=6645) Medline (n=2273) Embase(n=4133) CINAHL (n=53) CENTRAL (n=196) Excluded after screening titles and abstracts (n=5992) Potentially relevant studies identified for full text evaluation (n=53) Studies excluded (n=50) Not randomised controlled trial (n=10) Not appropriate population (n=13)* Not appropriate disease (n=4) Not appropriate intervention (n=11) Not appropriate control group (n=12) *studies excluded if presented data did not allow calculation of outcomes for relevant age group. We wrote to authors of studies published in the last five years to request outcome data stratified by age-group and menopausal status, and received data for one trial.

Included studies (n=3 randomised controlled trials)